

**ARTIFACT REDUCTION IN SSFP MRI USING WEIGHTED SUM OF COMBINED
SIGNALS**

ABSTRACT OF THE DISCLOSURE

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Artifact reduction in steady state free precession magnetic resonance imaging uses weighting of acquired image data to emphasize higher signals and then establishing an image signal based on the combined weighted signals. In one embodiment, a SSFP imaging sequence uses phase cycling and acquired image data is squared with the squared data then 10 combined. The final image signal is based on the square root of the squared data.